

VIBRACORE LOG							
PROJECT: <u>NORTH BOCA RATON BORROW AREA (1994)</u>				CORE NO: <u>NBR - 6</u>			
COORDINATES: N = 742732 E = 808055		DATE: SEPT. 19, 1994 START TIME: 1722 END TIME: 1750		WATER DEPTH: 48.0 Ft. NGVD DRILLER: EXMAR CLIENT REP: M. ANDREWS			
CORE DIAMETER: 3.0"		ELEV.	DEPTH	LEGEND	DESCRIPTION	SAMP NO.	REMARKS
LENGTH OF BARREL: 20.0'		48.0'	0.0				
PENETRATION DEPTH: 9.9'							
LENGTH RECOVERED: 5.9'							
PERCENT RECOVERED: 60 %							
LENGTH RETAINED : 5.9'							
SUPPORT VESSEL: SEAWARD EXPLORER		52.0'					
POSITIONING: DGPS							
MOTOROLA LGT 1000 / OMNISTAR DGPS			5.0		GRAY, MEDIUM QUARTZOSE SAND WITH GRAY & BLACK CALCAROUS SHELL HASH	1 4.0'	CUT 1.97 Phi 0.26 mm 1.2 % SILT (SP)
WEATHER:							
WIND:							
DIR: SE							
SPEED: 10-15 Kt							
WAVES:							
DIR: SE							
HEIGHT: 1-2 FL		57.9'	10.0				
CURRENT:							
DIR: NORTH							
SPEED: LIGHT							
ANALYSIS BY: MDA							
ANALYSIS METHOD:							
VISUAL LOGGING							
MECHANICAL SIEVE			15.0				
SAND							
SHELLS							
CORAL FRAG.							
SHELL HASH							
ROCK			20.0				

NOTE: MEAN WAS CALCULATED USING MOMENT METHOD
 NOTE: COORDINATE SYSTEM - FLORIDA STATE PLANE NAD 1927
 NOTE: CORE WEIGHTED COMPOSITE 0.27 mm

COASTAL PLANNING & ENGINEERING, INC

GRADATION ANALYSIS REPORT
N. BOCA RATON VIBRACORE 9-94
TESTED BY: MDA ON: 11-14-94

SAMPLE NO.: NBR6 S#1
SAMPLE ELEV. (FT. NGVD): -52.0
SAMPLE DEPTH (FT.): -4.0
SAMPLE TYPE: CORE SAMPLE

USCS DESCRIPTION: SP

DRY SAMPLE WEIGHT (GRAMS): 69.40
SAMPLE WEIGHT AFTER WASH (GRAMS): 68.55

SIEVE SIZE	PHI SIZE	MESH SIZE (mm)	RETAINED (GRAMS)	RETAINED (%)	PASSED (%)
5/8	-4.0	16.000	.00	.00	100.00
5/16	-3.0	8.000	.00	.00	100.00
5	-2.0	4.000	.00	.00	100.00
7	-1.5	2.800	.13	.19	99.81
10	-1.0	2.000	.38	.55	99.45
14	-0.5	1.400	.89	1.28	98.72
18	0.0	1.000	1.55	2.23	97.77
25	0.5	.710	3.07	4.42	95.58
35	1.0	.500	7.53	10.85	89.15
45	1.5	.355	13.60	19.60	80.40
60	2.0	.250	29.93	43.13	56.87
80	2.5	.180	53.32	76.83	23.17
120	3.0	.125	67.25	96.90	3.10
170	3.5	.090	68.52	98.73	1.27
200	3.75	.075	68.54	98.76	1.24
230	4.0	.063	68.98	99.39	.61
PAN			69.40	100.00	.00

PHI(5): .54 PHI(16): 1.29 PHI(25): 1.61
PHI(50): 2.10 PHI(75): 2.47 PHI(84): 2.68
PHI(95): 2.95

SIEVE LOSS(g): .00 SILT/CLAY: 1.24%
SKEWNESS: -.706 KURTOSIS: 1.150

GRAPHIC METHOD

MEAN (PHI): 1.91 SORTING: .69
MEAN (mm): .27 MEDIAN (mm): .23
NOTE: MEAN WAS CALCULATED USING 5 POINT METHOD

MOMENT METHOD

MEAN (PHI): 1.97 SORTING: .77
MEAN (mm): .26

DATA FILE NAME: A:VC6S#1.TAB

GRAIN SIZE DISTRIBUTION CURVE
N. BOCA RATON VIBRACORE 9-94

